Mr. Gregory D. Lancaster

Specializing in fiber optic detection systems.

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Licensing information

For information on licensing INL technologies such as those developed by Mr. Lancaster, contact the Lead Account Executive for National Security:

Tom Harrison
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Education: Greg holds a B.S. in industrial technology from University of Idaho and an Associate of Applied Science (A.A.S.) in laser-electro optics from Idaho State University.

Work experience: An INL staff scientist, Greg Lancaster joined INL in 1990. Since 1999, he has worked as a co-inventor of the Change Detection System (CDS) technology developed here for the detection and detailed analysis of complicated and diverse digital imaging applications.

Professional endeavors: Greg has worked in the design, development and field-testing of new and innovative integrated optical devices for measuring very high bandwidth electrical and optical signals associated with the Nuclear Weapons Testing program at the Nevada Test Site. Another special area of interest where Greg has extensive experience is the development and calibration of optical, electro-optical and electronic components to support experimental field-testing at the Nevada Test Site. He has also worked in Russia on an explosively driven laser and at the Idaho State University Accelerator Center in the study of laser-electron beam interaction physics.

Patents:

U.S. Patent No. 6,051,436 – Method for the Detection of Nitro-Containing Compositions Using Ultraviolet Photolysis

U.S. Patent No. 6,016,714 – Sensor System for Buried Waste Containment Sites

U.S. Patent No. 5,445,795 – Volatile Organic Compound Sensing Devices

U.S. Patent No. 5,306,642 – Device for Aqueous Detection of Nitro-Aromatic Compounds

U.S. Patent No. 5,157,261 – Detection Device for High Explosives